

### FEATURES

#### Advantages:

- Altex Coatings is the only Australasian member of the (UK) Association for Specialist Fire Protection (ASFP)
- Applicators must pre-register with the Altex Coatings Field Technical Manager (DDI +64-7-541 1962)

#### Approvals:

- 1998 COMPLIANT - 1990 EPA-PG6/23(97) Clause 20(d) – Industrial
- BS476 Part 7 - Surface Spread of Flame Material - for details of substrate/scheme, consult Leigh's Customer Service Department.
- Approved by Lloyds Register of Shipping.
- Approved by Det Norske Veritas.
- Approved by Bundesanstalt fur Materialforschung undprufung.
- Approved by the Head of the Netherlands Shipping Inspection.

#### Performance:

- Moisture – Excellent
- Aliphatic solvents – Good
- Acid spillage – Good
- Abrasion – Excellent
- Alkali spillage – Good
- Weather - Excellent (subject to chalking )
- Petroleum solvents - Good

\* Supplied by Altex Coatings Limited under licence and trademark of Leigh's Paints

### RECOMMENDED USES

**Firetex M90 is a two component modified high solids, epoxy coating designed for use as a thick film exterior durable intumescent coating for the treatment of offshore structures, LPG storage tanks and other steelwork requiring fire protection especially to hydrocarbon and Jet fires**

#### Firetex M90 is recommended for:

- Offshore oil and gas platforms
- LPG storage tanks
- Fire protection of hydrocarbon and Jet Fuel fires

#### Precautions:

- Do not expose to rain or heavy dew without being sealed.
- The curing reaction of epoxies commences immediately the two components are mixed, and since the reaction is dependent on temperature, the curing time and pot life will be approximately halved by a 10°C increase in temperature and doubled by a 10°C decrease in temperature.
- There may be slight variations in colour from batch to batch.
- Larger variations in colour, when using twin component spray, may indicate a fault with the spray equipment and this should be checked to ensure the correct ratio of base and additive are being delivered.
- For full certification a Firetex Schedule should be requested; to achieve the specified FRR the Firetex M90 must be applied to the scheduled dry film thickness.

### SPECIFICATION DATA

<b>Coating Type:</b>	Solvent Free Epoxy Intumescent
<b>Colour:</b>	Pale Blue
<b>Packaging:</b>	20 kg
<b>Mix Ratio:</b>	2:1 by volume
<b>Gloss:</b>	Flat
<b>Flash Point:</b>	55 °C Setaflash
<b>Thinner:</b>	Leigh's No 9 Thinner
<b>Pot Life:</b>	15 minutes at 23°C
<b>Induction Time:</b>	n/a
<b>Shelf Life:</b>	2 years (stored in cool dry conditions)

<b>Density:</b>	
<b>VOC:</b>	
<b>Temperature Resistance:</b>	
<b>Volume solids:</b>	100 %
<b>Theoretical Coverage Rate:</b>	See Fire Rating Tables
<b>Recommended Film Thickness Per Coat:</b>	5000 microns wet to obtain 5000 microns dry
<b>Application:</b>	<b>Airless Spray or Trowel</b>
<b>Dry Times (5000 µm DFT / 50% RH):</b>	
<b>Recoat – minimum:</b>	<b>5°C      10°C      15°C      23°C</b>
<b>Self</b>	6 hrs      5 hrs      4 hrs      2 hrs
<b>To handle</b>	36 hrs      30 hrs      16 hrs      12 hrs
<b>Recoat – maximum:</b>	
<b>Self</b>	n/a      n/a      n/a      n/a

## SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Oil or grease should be removed in accordance with AS1627.1 solvent cleaning. Surface defects revealed by the preparation process, should be ground, filled, or treated in the appropriate manner. Clean to remove all grit dust and debris and ensure the surface is dry.

### Steel Surfaces:

Abrasive blast to AS1627.4 Class 2 ½ to achieve a uniform blast profile between 38 to 63 microns and be of a jagged nature as opposed to a peen pattern. A lesser degree of cleaning will reduce the service life of the coating. Apply primer coat to the cleaned surface to prevent re-rusting or contamination.

### Wire Mesh Reinforcement:

Where mesh or scrim reinforcement of the Firetex M90 is necessary, this should be carried out in accordance with Leigh's Paints Firetex M90 Application Manual.

### Suitable Primers:

The primer used must be approved by Altex Coatings. Consult Altex Coatings for details of the approved primers list and the qualification protocol. An extensive range of Leigh's own primers has been approved including Metagard L574 Blast Primer; Epigrip L425HS Zinc Phosphate Primer; Epigrip J984 Zinc Rich Primer/Epigrip M330 Sealercoat; Epigrip M111 Wet Blast Primer; Epigrip M900 Winterfast Primer/Undercoat and Epigrip M902 Winterfast Hi-Build Brushing Aluminium.

## DIRECTIONS FOR USE

### Mixing:

The material should preferably be applied at temperatures in excess of 10°C. In conditions of high relative humidity, i.e. 80-85% good ventilation conditions are essential. Substrate temperature should be at least 3°C above the dew point and always above 0°C. At application temperatures below 10°C, drying and curing times will be significantly extended. Application at ambient air temperatures below 5°C is not recommended. In order to achieve optimum water and chemical resistance, temperature needs to be maintained above 10°C during curing.

If it is desired to overcoat outside the times stated on the data sheet, please seek advice of Altex Coatings Customer Service Department.

### Thinning:

Thinning is not recommended or desired.

### Clean-up:

Hot water can be used effectively for flushing out lines and equipment. Care should be taken as water will not dissolve epoxy resin based materials. If a true solvent is desirable for equipment maintenance then the use of Leigh's No 9 Thinner is recommended.

### Application:

Material must be applied using twin component airless spray equipment which utilises a minimum 10" King or air motor. Both base and additive need pre-heating to a minimum temperature of 60°C while re-circulating through the unit, so that satisfactory spray application properties are obtained. Suitable insulated and heated lines should be used to maintain temperature prior to spraying. For smaller areas and repairs a trowel may be used.

### Suggested spray equipment is:

Airless Spray                      Graco - 45:1/63:1 pump; Silver gun,  
0.035- 0.043" RAC IV tip, with fan  
angle of 40 degrees.

The details of twin component spray tip orifice size, fan angle and pressure are given as a guide only. The fan angle given is for work on large flat surfaces. Smaller fan angles should be used where the size of the work to be sprayed makes this appropriate. It may be found that slight variation in tip orifice size or pressure will provide optimum atomisation in some circumstances. In general, the operating pressure should be the lowest possible consistent with satisfactory atomisation.

## PRECAUTIONS

For industrial use only.  
See the Altex Coatings Limited General Safety Data Sheet, product label and Material Safety Data Sheet (MSDS) for health and safety information prior to use.

**Firetex M90** is flammable. Keep away from heat, sparks and open flame. Use with adequate ventilation.  
May cause eye and skin irritation.  
Do not breathe vapour or spray.  
Wear suitable protective clothing such as gloves and eye and face protection.

## ALTEX COATINGS LIMITED

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